ANNUAL REPORT

1986 - 1987

MANITOBA HEALTH RESEARCH COUNCIL

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MEMBERS OF THE MANITOBA HEALTH RESEARCH COUNCIL

Dr. Lyonel G. Israels*, Chairman (until December 1, 1986)
- Executive Director, Manitoba Cancer Treatment and Research Foundation.

Dr. K.R. Hughes*, Chairman (starting December 1, 1986)
- Dean of Graduate Studies, University of Manitoba.

Dr. J. Foerster*, Vice-Chairman
- Professor and Head, Department of Medicine, St. Boniface General Hospital.

Dr. A. Kristjanson*
- Professor of Sociology, University of Manitoba.

Dr. A. Ronald*
- Head, Department of Medicine, Health Sciences Centre.

Dr. H. Glass
- Professor of Nursing, University of Manitoba.

Dr. M.I. Hussain
- General Surgeon, Selkirk, Manitoba.

Dr. J.P. Maclean
- Director of Nuclear Medicine, St. Boniface General Hospital.

Ms. N. McCormick (starting December 1, 1986)
- Director of Health Promotion, Victoria Health Guard Incorporated.

Ms. K. Scherer
- Assistant Director, Research & Planning Directorate, Manitoba Department of Health.

Dr. G. Sisler
- Professor of Psychiatry, University of Manitoba.

Prof. M. Vaisey-Genser**
- Associate Vice-President (Research) University of Manitoba.

Dr. J.G. Wade**
- Dean of Medicine, University of Manitoba.

* Members of the Executive and Finance Committee
** Appointed by the University of Manitoba

COUNCIL SECRETARIAT

Executive Director	-	Dr. Frits C. Stevens
Administrative Secretary	-	Lorraine Morley

REPORT OF THE CHAIRMAN

The Manitoba Health Research Council since its inception has been most ably led by Dr. Lyonel G. Israels. Together with members of Council and with the excellent assistance of Dr. Frits Stevens, the Executive Director, Dr. Israels charted a course for the Manitoba Health Research Council which has been very well received by the research community in Manitoba. To date some $5.7 million of new research monies have been carefully directed to research grants, equipment and an excellent variety of personnel awards. A disappointment to Dr. Israels and to me as his successor, is that while expectations have been raised by these very successful programs, our base funding from the Province of Manitoba, Department of Health has remained frozen for the fourth successive year at $787,000. This is not the rate of progress anticipated when the Manitoba Health Research Council was founded on the initial premise that it should be funded annually at .4% of provincial health care expenditures. Had this formula been applied, our budget this year would have been $5.2 million.

Not only has the funding from the Department of Health remained fixed at $787,000 but there has been a drop of 15% in our other source of revenue, break-open Nevada tickets sold only in certain hotel beverage rooms. This drop in lottery revenue, if it continues, will jeopardize our programs. A joint Medical Research-Manitoba Lotteries Foundation committee is looking into this problem and trying to find a remedy. The rationale for tying support for health research to the sales of break-open lottery tickets is not well founded and it would be better to base it on a formulaic relationship to general lottery revenues rather than on the vagaries of hotel based break-open ticket sales. The prospect of all of our future funding being directly dependent upon a sub-classification of Manitoba Lottery revenues gives Council grave concern because

they feel that the commitment to Health Research should be made by the government itself as an investment in the future. The cost of not doing health research is astronomical and for the cost benefits of such research one need only look at the positive financial consequences of Polio vaccines, Insulin, and vaccines for contagious diseases.

The basic programs of the Council are sound and are making a significant contribution in retaining young investigators in the Province and attracting new ones to come here. However, some research areas vital to Manitoba's stated health care priorities are underdeveloped and special initatives will be needed to remedy these situations. We have already discussed with the Minister of Health the need to separately fund programs of research and personnel support related to the expanding elderly population, mental health needs, the consequences of drug and alcohol abuse and a few other topics of immediate concern. We will be making more specific proposals in these areas in the near future.

The Province has been extremely well served this year by the members of Council who represent a broad range of disciplines and interests and I thank them for their efforts. We also acknowledge the valuable contribution of the local scientific review panels and the 300 external reviewers who selflessly provided the expertise needed to peer review all of the applications for financial support.

Council's audited Financial Statement, lists of the Scientific Review Committee and the 1986 Grants and Awards are detailed in the remainder of this report.

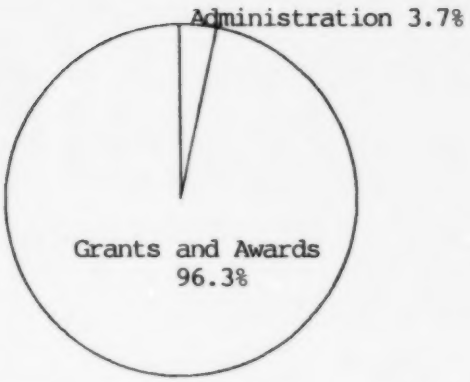
Kenneth R. Hughes, Ph.D.

Chairman

FISCAL OVERVIEW 1986-87

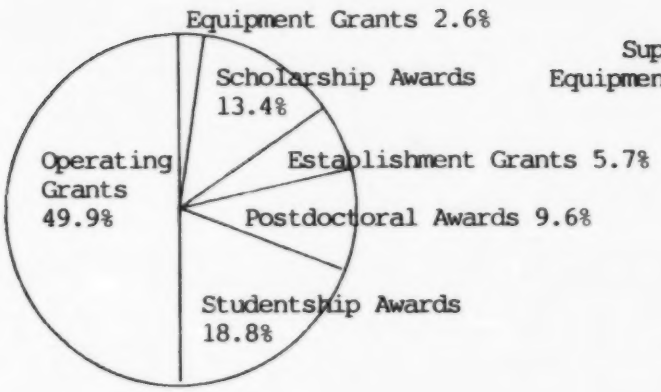
TOTAL EXPENDITURES

$ 1,360,815



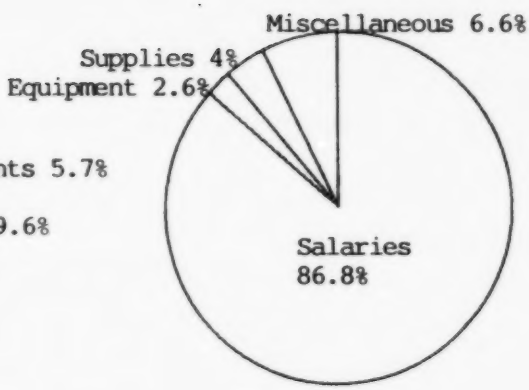
GRANTS AND AWARDS

$ 1,310,665



ADMINISTRATION

$ 50,150



Manitoba

THE MANITOBA HEALTH RESEARCH COUNCIL

REPORT OF THE PROVINCIAL AUDITOR'S OFFICE

We have examined the financial statements, being Exhibits A and B and Schedule 1, of The Manitoba Health Research Council for the fiscal year ended March 31, 1987. Our examination was made in accordance with generally accepted auditing standards, and accordingly included such tests and other procedures as we considered necessary in the circumstances.

In our opinion, these financial statements present fairly the financial position of the Council as at March 31, 1987 and the results of its operations for the year then ended in accordance with the accounting policies stated in note 3 to the financial statements applied on a basis consistent with that of the preceding year.

F. H. Jackson, CA,
Provincial Auditor.

May 22, 1987,
Winnipeg, Manitoba.

Exhibit A

THE MANITOBA HEALTH RESEARCH COUNCIL

Balance Sheet
as at March 31, 1987
(with 1986 figures for comparison)

	1987	1986
ASSETS		
Cash	$ 478,627	$ 266,931
Grant receivable from The Manitoba Lotteries Foundation	115,528	127,116
Accrued interest	11	2,388
	$ 594,166	$ 396,435
LIABILITIES AND UNEXPENDED FUNDS		
Accounts payable	$ 4,996	$ 3,574
Research grants payable	306,465	280,059
Unexpended funds, Exhibit B	282,705	112,802
	$ 594,166	$ 396,435

Approved on behalf of the Council:

DIRECTOR

DIRECTOR

The accompanying notes are an integral part of the financial statements.

Exhibit B

THE MANITOBA HEALTH RESEARCH COUNCIL

Statement of Revenues and Expenditures and Unexpended Funds for the year ended March 31, 1987 (with 1986 figures for comparison)

	1987	1986
Revenues:		
Grant from the Government of the Province of Manitoba	$ 787,000	$ 787,000
Grant from The Manitoba Lotteries Foundation	695,373	816,034
Returned grant funds	21,078	6,388
Bank interest	26,524	7,367
Insurance recovery	743	-
	1,530,718	1,616,789
Expenditures:		
Research grants (Note 3(b)):		
University of Manitoba on behalf of grantees	1,296,465	1,187,519
University of Winnipeg on behalf of grantees	-	15,300
Manitoba Cancer Treatment and Research Foundation on behalf of grantees	14,200	34,000
Brandon University on behalf of grantees	-	12,000
St. Boniface Hospital on behalf of grantees	-	4,600
	1,310,665	1,253,419
Administration expenses, Schedule 1	50,150	44,953
	1,360,815	1,298,372
Revenues over expenditures	169,903	318,417
Balance of unexpended funds (deficit), beginning of year	112,802	(205,615)
Balance of unexpended funds, end of year, Exhibit A	$ 282,705	$ 112,802

The accompanying notes are an integral part of the financial statements.

THE MANITOBA HEALTH RESEARCH COUNCIL

Administration Expenses
for the year ended March 31, 1987
(with 1986 figures for comparison)

	1987	1986
Accounting and audit	$ 1,250	$ 1,150
Bank charges	78	28
Council and committee expenses	539	544
Insurance	125	100
Office equipment (Note 3(a))	1,303	2,066
Symposium	-	1,000
Postage and delivery	899	756
Printing and stationery	2,001	4,861
Salaries and benefits	43,547	33,464
Telephone	408	346
Travel	-	638
Total administration expenses, Exhibit B	$ 50,150	$ 44,953

The accompanying notes are an integral part of the financial statements.

THE MANITOBA HEALTH RESEARCH COUNCIL

Notes to the Financial Statements
for the year ended March 31, 1987

1. INCORPORATION AND FUNCTION

The Manitoba Health Research Council was established by an Act of the Legislature, being Chapter 31, The Manitoba Health Research Council Act, which came into force effective August 15, 1982. The Council was established to promote and assist basic, clinical and applied research in the health sciences in Manitoba and advise the Minister in respect of such matters relating to health research as the Minister may refer to the Council for its consideration.

2. CHARITABLE STATUS

The Manitoba Health Research Council is a registered charity within the meaning of the Income Tax Act.

3. SIGNIFICANT ACCOUNTING POLICIES

(a) An accrual basis of accounting is used except for office equipment purchases, which are charged to expenditures in the year of acquisition.

(b) Research grants are charged to expenditures when funding is approved by the Council.

OPERATING & EQUIPMENT SCIENTIFIC REVIEW COMMITTEE

Dr. P. Loewen (Chairman), Department of Microbiology,
University of Manitoba.

Dr. F.Y. Aoki, Department of Medical Microbiology,
University of Manitoba.

Dr. D. Bose, Department of Pharmacology,
University of Manitoba.

Dr. P. Choy, Department of Biochemistry,
University of Manitoba.

Dr. N. Fleming, Department of Oral Biology,
University of Manitoba.

Dr. J. Gartner, Department of Pathology,
University of Manitoba.

Dr. B. Light, Department of Internal Medicine,
St. Boniface General Hospital.

Dr. R.J. Matusik, Department of Physiology,
University of Manitoba.

Dr. L. Oppenheimer, Department of Surgery,
Health Sciences Centre.

Dr. C. Pinsky, Department of Pharmacology,
University of Manitoba.

Dr. R. Reid, Faculty of Pharmacy,
University of Manitoba.

Dr. P. Singal, Department of Physiology,
University of Manitoba.

Dr. J. Winter, Department of Pediatrics,
Health Sciences Centre.

Dr. K. Wrogemann, Department of Biochemistry,
University of Manitoba.

PERSONNEL SCIENTIFIC REVIEW COMMITTEE

Dr. E.A. Kroeger (Chairman), Department of Physiology,
University of Manitoba.

Dr. I. Bihler, Department of Pharmacology,
University of Manitoba.

Dr. C.J. Briggs, Faculty of Pharmacy,
University of Manitoba.

Dr. D. Burton, Department of Microbiology,
University of Manitoba.

Dr. D. Chow, Cell Biology Institute,
Manitoba Cancer Treatment and Research Foundation.

Dr. W. Dahlgren, Faculty of Physical Education,
University of Manitoba.

Dr. C. Dowse, Department of Oral Biology,
University of Manitoba.

Dr. C. Faiman, Department of Medicine,
Health Sciences Centre.

Dr. A. Greenberg, Cell Biology Institute,
Manitoba Cancer Treatment and Research Foundation.

Dr. P. McAlpine, Department of Human Genetics,
University of Manitoba.

Dr. J.A. Thliveris, Department of Anatomy,
University of Manitoba.

Dr. M. Younes, Department of Medicine,
Health Sciences Centre.

SOCIAL & BEHAVIOURAL SCIENTIFIC REVIEW COMMITTEE

Dr. L.L. Roos (Chairman), Administrative Studies,
University of Manitoba.

Dr. J. Arnett, Department of Psychiatry,
Health Sciences Centre.

Dr. G. Barnes, Department of Family Studies,
University of Manitoba.

Dr. C. Becker, Maternal and Child Health,
Manitoba Health.

Dr. W. Eaton, Department of Psychology,
University of Manitoba.

Dr. R. Guttentag, Department of Psychology,
University of Winnipeg.

Dr. J. Horne, Department of Sociol & Preventive Medicine,
University of Manitoba.

Dr. A. Segall, Department of Sociology,
University of Manitoba.

LIST OF OPERATING GRANTS

Investigator(s), Department, Institution, Project Title	Award Amount
AGBAYEWA, M.O., Psychiatry, U. of Manitoba. Treatment of post-stroke depression and its effect on rehabilitation.	$ 14,000
BECKER, A.B., SIMONS, F.E.R., SIMONS, K.J. & KEPRON, M.W., Pediatrics & Child Health, U. of Manitoba. The development of airways hyperreactivity and its relationship to atopy.	30,000
BELIK, J., Pediatrics, U. of Manitoba. Persistent pulmonary hypertension syndrome of the newborn - central hemodynamic changes in a new animal model.	13,830
BERCZI, I., Immunology, U. of Manitoba. Prolactin receptors in lymphoid tissue.	13,650
BRUNI, J.E., Anatomy, U. of Manitoba. An immunocytochemical study of ependymal cell development and their synaptoid-like neuronal contacts.	13,100
DAVIE, J.R., Biochemistry, U. of Manitoba. Biochemical analysis of protamine gene chromatin in developing trout testis.	34,800
DELANGE, L., Human Genetics, U. of Manitoba. The mechanism of DNA replication of poxviruses.	35,000
DICK, T.A., Zoology & KLASSEN, G.R., Microbiology, U. of Manitoba. Molecular genetic and antigenic variation in trichinella spiralis.	40,000
DODD, J.G., Physiology, U. of Manitoba. Studies of a prostate-specific protein using developed antibodies.	20,000
FAIMAN, C., Medicine, U. of Manitoba. Gonadotropin regulation in the fetus.	5,000
FRIESEN, H.G., Physiology, U. of Manitoba. Studies of prolactin secreting tumours.	32,000
GLAVIN, G.B. & GEIGER, J.D., Pharmacology, U. of Manitoba. Further characterization of mechanisms underlying adenosine-induced protection against stress pathology in rats.	15,750

List of Operating Grants (Continued)

HAVENS, B., Social & Preventive Med., U. of Manitoba. Longitudinal analytic study of aging in Manitoba data bases.	$ 44,160
HUDA, W., Medical Physics, Manitoba Cancer Treatment & Research Foundation. Electron dosimetry.	14,200
LAUTT, W.W., Pharmacology, U. of Manitoba. Hepatorenal interactions: hepatic baroreceptor control of renal function.	32,000
LAW, B.J., Med. Microbiology, U. of Manitoba. The effect of perinatal exposure to HTLV III infection on infant growth and development.	27,000
MAN, R.Y.K., Pharmacology, U. of Manitoba. Calcium and lysophospholipid-induced electro-physiological and biochemical alterations in isolated myocytes.	17,800
McKENNA, R., Medicine, U. of Manitoba. Functional and phenotypic analysis of T lymphocytes cultured from human renal allografts.	30,000
NAGY, J.I., Physiology, U. of Manitoba. Neuroanatomy of adenosine deaminase-containing neurons in the rat CNS.	19,500
PATERSON, J.A., Anatomy, U. of Manitoba. Hearing and blood supply in development: the relation between neuronal function and neovascularization.	31,000
PEAR, J.J., Psychology & KINSNER, W., Electrical Engineering, U. of Manitoba. Development of a tracking system for shaping limb movement.	13,000
PIERCE, G.N., Physiology, U. of Manitoba. Role of extracellular calcium in muscle cell calcium flux.	21,000
SHEFCHYK, S.J., Medicine, U. of Manitoba. Central nervous system mechanism involved in the control of micturition.	29,000
SHIU, R.P.C., Physiology, U. of Manitoba. Molecular cloning and expression of the human prolactin receptor gene.	35,000
STAMBROOK, M., Psychiatry, Health Sciences Centre. Psychosocial sequelae following severe head injury: the spouses' burden.	11,300

List of Operating Grants (Continued)

WILLIAMS, P.T., Rehabilitative Dental Science & CAHOON, J.R., Mechanical Engineering, U. of Manitoba. Thermally induced fracturing of amalgam restoration margins.	$ 22,000
WINTER, J.S.D., Pediatrics, U. of Manitoba. Regulation of cytochrome P-450 synthesis in the adrenal cortex.	10,500
YOUNES, M., Medicine, U. of Manitoba. Pulmonary vascular resistance and control of breathing during very high pulmonary blood flow.	29,600
	$ 654,190

LIST OF EQUIPMENT GRANTS

GARTNER, J.G., Pathology, U. of Manitoba. Gamma counter.	$ 18,900
GEIGER, J.D. , Pharmacology, U. of Manitoba. Refrigerated table top centrifuge.	10,000
LAW, B., Medical Microbiology, U. of Manitoba. -70 degrees freezer.	5,000
	$ 33,900

LIST OF PERSONNEL AWARDS

SCHOLARSHIP AWARD RENEWALS

DODD, J.C., Physiology, U. of Manitoba. Cloning and characterization of genes expressed by the human prostate.	$ 35,000
DUCAS, J., Medicine, U. of Manitoba. Effects of resistive load on ventricular function.	35,000
	$ 70,000

SCHOLARSHIP AWARDS

DELANGE, L., Human Genetics, U. of Manitoba. The mechanism of DNA replication of poxviruses.	$ 35,000
HAYGLASS, K.T., Immunology, U. of Manitoba. Immunogenetics of suppressor T cell regulation of IgE responses.	35,000
PASTERKAMP, H., Pediatrics, U. of Manitoba. Studies on respiration acoustics in the developing lung.	35,000
	$ 105,000

ESTABLISHMENT GRANTS

DELANGE, L., Human Genetics, U. of Manitoba. The mechanism of DNA replication of poxviruses.	$ 25,000
HAYGLASS, K.T., Immunology, U. of Manitoba. Immunogenetics of suppressor T cell regulation of IgE responses.	25,000
PASTERKAMP, H., Pediatrics, U. of Manitoba. Studies on respiration acoustics in the developing lung.	25,000
	$ 75,000

POSTDOCTORAL FELLOWSHIP AWARDS

Fellow (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
ALFA, M.J. (Jay, F.T.), Microbiology, U. of Manitoba. Molecular biology.	$ 20,565
GEORGE,C.F.P. (Kryger, M.H.), Medicine, U. of Manitoba. Respiratory physiology.	30,655
O'DONNELL, D.E. (Younes, M.), Medicine, U. of Manitoba. Respiratory mechanics and control of breathing.	30,655
SHIOSAKA, S. (Nagy, J.I.), Physiology, U. of Manitoba. Neuroanatomy/neurochemistry.	21,850
WALKER, A.C. (Friesen, H.G.), Physiology, U. of Manitoba. Physiology.	21,850
	$ 125,575

GRADUATE STUDENTSHIP AWARDS

Student (Supervisor), Department, Institution. Project or Field of Research.	Award Amount
ALLESLEV, L.J. (McAlpine, P.J.), Human Genetics, U. of Manitoba. Human genetics.	$ 11,450
ATKINSON, E.A. (Greenberg, A.H.), Immunology, U. of Manitoba. Tumor immunology.	11,450
BENNET, R.D. (Chow, D.A.), Immunology, U. of Manitoba. Tumor immunology.	11,450
deVOS, T. (Dick, T.A.), Zoology, U. of Manitoba. Immunology.	11,450
DIMATTIA, G. (Friesen, H.G.), Physiology, U. of Manitoba. Molecular biology of endocrine systems.	11,450
FITZPATRICK, K.C. (Bruce, V.), Foods & Nutrition, U. of Manitoba. Nutrition.	11,450
GUSE, L.W. (Chappell, N.L.), Psychology, U. of Manitoba. Health care research in gerontology.	11,450

Graduate Studentships (Continued)

HEAMAN, M.I. (Beaton, J.), School of Nursing, U. of Manitoba. Maternal - infant nursing (with a focus on high risk pregnancy).	$ 11,450
KRAUT, R.P. (Greenberg, A.H.), Health Sciences Centre. Tumor immunology.	11,450
KRIELLAARS, D.J. (Jordan, L.M.), Physiology, U. of Manitoba. Neurophysiology.	11,450
LAFORTUNE, S. (Jell, R.M.), Physiology, U. of Manitoba. Human optokinetic afternystagmus (in relation to vestibular function).	11,450
MEYER, N.E. (Dyck, D.), Psychology, U. of Manitoba. Clinical psychology, behavioral specialization.	11,450
NICKEL, B.E. (Davie, J.R.), Biochemistry, U. of Manitoba. Biochemistry.	11,450
PEELING, R.W-W. (Brunham, R.C.), Medical Microbiology, U. of Manitoba. Microbiology of sexually transmitted disease pathogens.	11,450
RIDSDALE, J.A. (Davie, J.R.), Biochemistry, U. of Manitoba. Molecular cell biology/biochemistry.	11,450
SANDISON, G.A. (Huda, W.), Medical Physics, Manitoba Cancer Treatment & Research Foundation. Medical physics.	11,450
SIOW, Y.L. (Dakshinamurti, K.), Biochemistry, U. of Manitoba. Biochemistry (Neurochemistry).	11,450
SZTURM, T.J. (Jell, R.M.), Physiology, U. of Manitoba. Physiology. Study of human vestibular system.	11,450
TUNNA, K.H. (Barnes, G.), Family Studies, U. of Manitoba. Social psychological and genetic factors associated with substance abuse.	11,450
UNIYAL, S. (Paraskevas, F.), Immunology, U. of Manitoba. Immunology.	11,450
	$ 229,000

SUMMER STUDENTSHIP RENEWALS

HRABARCHUK, B. (Matusik, R.J.), Physiology, U. of Manitoba. Oncogene expression in prostatic hyperplasia and cancer.	$	3,000
MALLICK, B.A. (Bose, D. & Ong, B.Y.), Pharmacology, U. of Manitoba. Pharmacology.		3,000
	$	6,000

SUMMER STUDENTSHIPS AWARDS

ARANEDA, M.C. (McCoshen, J.A.), Obstetrics & Gynecology, U. of Manitoba. Infertility.	$	3,000
DESROCHERS, M.N. (Pear, J.), Psychology, U. of Manitoba. Verbal training with developmentally handicapped children in the area of behaviour modification.		3,000
ROHRINGER, M. (Wrogemann, K.), Biochemistry, U. of Manitoba. Isolation of DNA probes for specific regions of the x-chromosome.	$	3,000
SMALL, F.M. (Janisse, M.P.), Psychology, U. of Manitoba. Personality and social psychology.		3,000
	$	12,000